# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 03/02/2015 01:39 PM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/20/2014 10:06 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 51739, Expiration Date: 01/31/2016
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 128412 | 2 | 1.99 | 128288 | 2.02 |
| Blue | F | SSC | 125000 | 135406 | 8 | 5.29 | 136428 | 5.22 |
| Blue | E | FITC | 17374 | 17407 | 0 | 3.46 | 977 | 9.11 |
| Blue | D | PE | 22653 | 22887 | 1 | 2.95 | 1031 | 8.26 |
| Blue | B | PerCP-Cy5-5 | 64987 | 67219 | 3 | 3.44 | 1771 | 13.00 |
| Blue | A | PE-Cy7 | 74081 | 75649 | 2 | 4.43 | 991 | 24.03 |
| Red | C | APC | 61430 | 62075 | 1 | 2.80 | 3506 | 8.03 |
| Red | A | APC-Cy7 | 88289 | 90286 | 2 | 2.84 | 1790 | 7.90 |
| Violet | B | V450 | 12535 | 12977 | 3 | 4.73 | 800 | 8.78 |
| Violet | A | V500 | 47468 | 50625 | 6 | 4.49 | 2846 | 6.90 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 21243 | 4.61 | 591 | 12 | N/A | N/A | Pass |
| Blue | F | SSC | 67306 | 4.03 | 506 | 17 | N/A | N/A | Pass |
| Blue | E | FITC | 107 | 34.35 | 518 | 9 | 0.0261 | 108 | Pass |
| Blue | D | PE | 214 | 24.41 | 511 | 10 | 0.1802 | 153 | Pass |
| Blue | B | PerCP-Cy5-5 | 215 | 37.74 | 593 | 13 | 0.0116 | 0 | Pass |
| Blue | A | PE-Cy7 | 75 | 92.02 | 650 | 13 | 0.0161 | 6 | Pass |
| Red | C | APC | 325 | 25.81 | 574 | 4 | 0.0222 | 13 | Pass |
| Red | A | APC-Cy7 | 113 | 37.79 | 551 | 5 | 0.0049 | 891 | Pass |
| Violet | B | V450 | 84 | 40.15 | 455 | 6 | 0.0420 | 1361 | Pass |
| Violet | A | V500 | 185 | 19.67 | 484 | 6 | 0.0120 | 0 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.62 | 47.70 - 71.54 | N/A | N/A | -31.67 | -31.23 | 0.88 |
| Blue | 20.47 | 16.35 - 24.53 | 1.25 | 1.00 - 1.50 | 0.00 | 0.00 | 1.31 |
| Red | 15.24 | 13.07 - 19.61 | N/A | N/A | 31.50 | 32.04 | 1.11 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.89

## Threshold

Threshold (FSC): 11081

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments